



Business Forecast Meeting

Sell-Side

June 24th, 2019

[Narrative](#)

[Calendar](#)

[Sell side BFM one sheeter](#)

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Agenda

Global Ads Performance Review	Finance
Sell side Performance Review	Chris
Growth & Adoption Metrics	Chris
Deep Dive Questions: Apps	P-Staff
Deep Dive Questions: PG	P-Staff
Top Product Asks	Chris
Appendix	

Global Ads Performance Review

Global Product Forecast

To be updated by Sales Finance on Nov 30 ([template](#))

	Revenue	Q4 2017 Y/Y Growth		Performance		W/W Outlook Change	
	EOQ \$	EOQ %	\$	% vs. Target	\$ vs. Target	%	\$
<i>amounts shown in USD millions</i>							
Search							
CT Google.com							
Mobile Google.com							
AFS							
Display							
Network Display							
non-Google Display							
O&O Display							
Video							
O&O Video							
Network Video							
non-Google Video							
Total Quota-Bearing Ads							
Total YouTube							
Total Programmatic							
Total App Promo							
Total Sell-Side							

*Total Programmatic Media includes AdX Buyers, DBM, DBM Video on YT, and DBM non-YT Video
 *Total YouTube includes DBM Video on YouTube
 *App Promo forecast sourced from Sales Finance

Sell side Revenue

Google

4

Confidential and Proprietary

Region-Channel Performance

To be updated by Sales Finance on Nov 30 [\(template\)](#)

Region vs. Channel	LCS+AUX				GMS				TOTAL			
	% Target	\$ vs Target	w/w	QTD YoY	% Target	\$ vs Target	w/w	QTD YoY	% Target	\$ vs Target	w/w	QTD YoY
Americas												
EMEA												
APAC												
TOTAL												

Notes: Only captures quota-bearing revenues. Marked green if % Target above 102% and red if below 98%. All metrics (except QTD yoy) are based on current quarter's EoQ revenue outlook.

Sell side Performance Review

Sell Side Performance Review

	Network Web			Network App			Network Video Content			Total Display			AFS + AFD			Total Sell Side Revenue		
March 5 - June 2	Rev	Rev YoY	MO YoY	Rev	Rev YoY	Imp YoY	Rev	Rev YoY	MO YoY	Rev	Rev YoY	MO YoY	Rev	Rev YoY	MO YoY	Rev	Rev YoY	MO YoY
LPS - Americas	\$428	12%	17%	\$129	61%	6%	\$64	26%	31%	\$621	21%	15%	\$434	-7%	-25%	\$1,055	8%	7%
OPG - Americas	\$659	7%	3%	\$235	26%	7%	\$37	38%	56%	\$931	12%	4%	\$24	17%	-1%	\$955	12%	4%
Americas	\$1,088	9%	7%	\$364	36%	7%	\$101	30%	39%	\$1,552	15%	7%	\$457	-6%	-24%	\$2,010	10%	6%
LPS - EMEA	\$267	18%	11%	\$48	103%	56%	\$34	37%	52%	\$349	27%	17%	\$165	-14%	-4%	\$514	10%	15%
OPG - EMEA	\$628	19%	14%	\$409	48%	22%	\$24	31%	42%	\$1,061	29%	17%	\$53	20%	2%	\$1,114	29%	17%
EMEA	\$895	19%	13%	\$457	52%	25%	\$58	34%	47%	\$1,410	29%	17%	\$218	-8%	-3%	\$1,628	22%	16%
LPS - APAC	\$96	9%	14%	\$138	-26%	-18%	\$7	57%	101%	\$241	-13%	-4%	\$32	17%	72%	\$273	-11%	-4%
OPG - APAC	\$374	16%	8%	\$660	33%	12%	\$3	47%	106%	\$1,038	27%	9%	\$10	23%	-9%	\$1,048	27%	9%
APAC	\$470	15%	9%	\$798	17%	-2%	\$10	54%	103%	\$1,278	16%	6%	\$42	18%	39%	\$1,321	17%	6%
LPS	\$791	14%	14%	\$315	9%	-5%	\$105	31%	42%	\$1,211	14%	8%	\$631	-8%	-16%	\$1,842	5%	6%
OPG	\$1,662	13%	9%	\$1,304	36%	15%	\$64	36%	54%	\$3,030	23%	11%	\$87	20%	0%	\$3,116	22%	17%
Total	\$2,453	13%	10%	\$1,619	30%	10%	\$168	33%	47%	\$4,241	20%	10%	\$718	-5%	-15%	\$4,958	15%	10%

1 Web in transition from CT (0% Y/Y, 47% of rev) to mobile (+28% Y/Y, 53% of rev)

2 Apps still main growth driver (56% of growth). EMEA now fastest growing region followed by AMS

3 In stream video still small, but growing. 41% of growth driven by PG.

4 Search highly concentrated (top 5 partners drive ~65% of revenue).

Total Video = \$692M (56% Y/Y) and it has 3 components: 1) \$34M in Web outstream, 9%y/y, \$2.8 CPM; 2) \$490M in Apps outstream, 70% y/y, \$3.2 CPM; 3) \$168M instream, 33%y/y, \$8.9 CPM

Metrics use March 5 to June 2, 2019 time frame (90 days) and deltas compared to previous year. SELL-SIDE is a regional view - representing the regions where inventory is managed.

Network Video includes instream only (AdX Video & APV); Outstream included under Web (AdX, AdSense) and Apps (AdX Apps, Admob). Details on appendix: [C/T and M split](#), [Total video \(Instream + Outstream\)](#) and [Countries](#)

Growth & Adoption Metrics

Platform Penetration - Non Weighted Breadth Overview (*)

	Gain Access					
	Non-Weighted Breadth of top % of the addressable market					
	WEB		APP		VIDEO INSTREAM (Web)	
	Web Platform Penetration	y/y	Google App mediation penetration	q/q	Video Instream platform penetration	y/y
LPS AMS	96%	--	52%	▲ 1	72%	▲ 5
LPS EMEA	95%	▲ 3	36%	--	70%	▲ 11
LPS APAC	95%	▲ 5	40%	▲ 3	60%	▲ 8
LPS TOTAL	95%	▲ 2	42%	▲ 3	69%	▲ 10
OPG AMS	81%	▲ 5	33%	▲ 1	48%	▲ 8
OPG EMEA	82%	▲ 6	42%	--	51%	▲ 18
OPG APAC	82%	▲ 10	26%	--	32%	▲ 13
OPG TOTAL	82%	▲ 7	32%	--	47%	▲ 15
Global XC	85%	▲ 6	32%	--	53%	▲ 13

1 Web breadth strong overall, however, OPG slightly lower w/ 95% of leads; viable ceiling est. at 90% w/ active mgmt of the leads in the pipeline; Weighted avg penetration ~91% (97% LPS, 86% OPG).

2 Apps business highly concentrated in OPG, specifically in APAC; LPS exhibiting higher rates given smaller base (7% or ~800 app devs); Weighted avg penetration ~33%
Metric greyed out given we only have data to track q/q (vs y/y for web and video).

3 High breadth penetration of partners with video instream content (which includes M&E partners, but also other types of partners w/video content); Weighted avg penetration ~29% - highlighting concentration of video content among few publishers that do not work on our platform.

(*) Caveat: Data not rev weighted; Video instream covers web only - apps and CTV to be included in the methodology.
Platform metrics use Q1-2019 timeframe (90 days). Deltas are y/y (except apps where delta is computed as q/q for now given data only available from July 2018 onwards).
Data source: [web](#), [apps](#) and [video](#). Summary of the methodology for the penetration metrics [here](#). SELL-SIDE is a regional view - representing the regions where inventory is managed. Metrics definition in [appendix](#). Regional and weighted views in [appendix](#). Rev on platform detail in [appendix](#).

Key: **85%** ▲ 9
Percentage point & in last 8 months
Color indicates above/below XC average

Growth & Adoption Metrics

	Programmatic Guaranteed (Share)	Exchange Bidding (Breadth)	Instream video Viewability (Share)	Android Play Gaming (Breadth)
BR	10% ▲ 3	90% ▲ 2	29% ▲ 5	0%
CA	8%	90%	23% ▼ 12	N/A
US	3%	74% ▲ 2	89% ▼ 2	85% ▲ 1
Americas LPS	3%	75% ▲ 2	8%	83% ▼ 1
DACH	1%	63% ▲ 6	89% ▼ 7	66% ▼ 10
FR	3%	80% ▲ 7	76% ▼ 1	95%
UK/IE	3% ▼ 2	93%	109% ▼ 3	21% ▼ 6
EMEA LPS	2%	78% ▲ 3	10%	53% ▼ 5
AU/NZ	3% ▼ 1	81% ▼ 3	42% ▼ 6	0%
GRCN	0%	87% ▼ 6	239% ▼ 22	88% ▼ 1
JP	0%	86% ▲ 4	23% ▲ 5	4%
APAC LPS	11%	85% ▲ 2	31% ▲ 1	70% ▲ 1
LPS	4%	79% ▲ 3	12% ▼ 3	77%
Americas OPG	1%	60% ▲ 7	71%	73%
EMEA OPG	5% ▲ 1	46% ▲ 4	3% ▼ 5	75% ▲ 1
APAC OPG	2%	31% ▲ 2	79% ▼ 6	61% ▲ 3
OPG	3% ▲ 1	48% ▲ 4	10% ▼ 3	68% ▲ 2
Global XC	4%	63% ▲ 4	11% ▼ 3	69% ▲ 1

1

PG imps as % of total reservations imps growing slowly, yet revenue from PG is up 14% last 90d, primarily driven by video (video bfm metric is -9%).

Difference between revenue growth and BFM metric attributed to i) tag reservation impressions growing and ii) video PG revs have higher CPM vs. display; LPS BR growth driven by UOL while LPS APAC driven by True Caller deal.

2

Adoption of EB continues to grow at rapid pace across web, app and video imps in Ad Manager.

LPS EMEA growth driven by United internet in DACH / Bertiesman & Fimalac in FR; LPS AUN/NZ and GRCN softness driven by partner mix (pubs in EB representing now lower share of total).

3

Eng team questioning veracity of predicted viewability data; investigating to ensure accurate ad targeting / BFM metric on hold until resolution.

4

Access to gaming inventory growing well in markets with most of the oppty (OPG APAC JP, CN, SEA, HK all growing 3-5 ppts).

LPS oppty is small as most of the apps gaming business concentrated in OPG.

Metrics use March 5 to June 2, time frame (90 days) and deltas compared to previous 90 days except for the Android Play Gaming Metric which uses Mar - May 2019 compared to the prior three months (Dec 2018 - Feb 2019). SELL-SIDE is a regional view - representing the regions where inventory is managed. Metrics definition in [appendix](#). Data source: [google/mr](#). Detail views in [appendix: Regional](#) and [OPG Tiers](#).

Key 86% ▲ 9 — Percentage point ▲ in last 3 months
Color indicates above/below XC average

Google

Deep Dive: PG

Deep Dive Discussion: PG

Since last review (Aug 2018) PG growing but headwinds involved in jump-starting PG at scale

- PG sellside growing at ~85% YOY but pacing ~20% below target of EOY goal \$897M
- Difficulties proving product value relative to price (buy & sell) as compared to tag-reservations
- Continued systemic challenges w/ agency business model limitations

Buy/Sell side:

- **What is the level of commitment to working with agencies and publishers to re-make the existing reservation market:** what initiatives are planned to close the gap in each region and what are the main blockers seeing in each region? Has the inclusion of PG in DVIP enabled a faster adoption across media agencies?

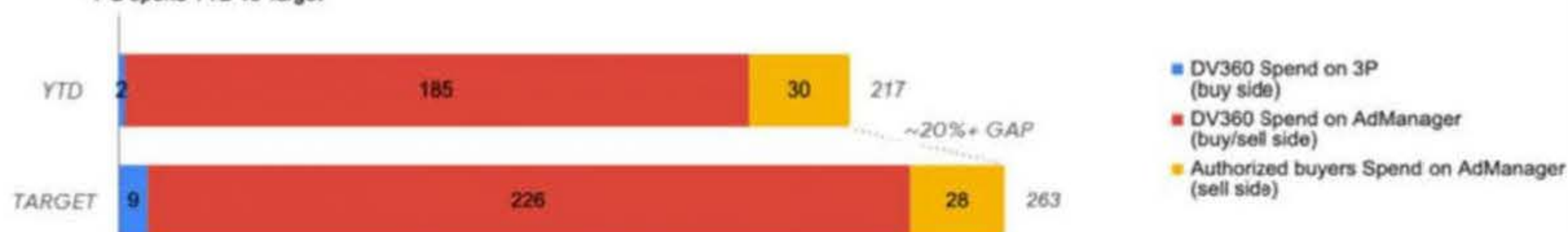
Google

[PG Q2 SteerCo](#)[Deals offsite](#)[Review of PG Go to market plan](#)

YTD Softness driven by lower spend of large auto advs (GM, Renault) and food/beverage (Mondelez, Starbucks). Pubs most affected Cox, Entrepreneur Media, Globe & Mail.

Deep Dive Discussion: How do we get PG to \$1B?

PG spend YTD vs Target



	Buy side	Sell side
Callouts	<ul style="list-style-type: none"> Q2'19 was lapping an extremely high growth quarter in Q2'18 (associated to Brand Safety) Early PG adopters diversifying growth across Auth Buyers. Largest historic growth contributor, FIAT, driving softness due to change in agency, from IPG to Starcom. 	<ul style="list-style-type: none"> Forecast is front end loaded, contributing to lag vs target. EMEA and AMS softness due to drop in demand (automotive campaigns, lower video & Google mkt spend, fewer CPD deals) and pubs reluctant to shift upfront video commitments to PG due to cost. APAC: On track.
Close the gap plan	<ul style="list-style-type: none"> Increased focus on agencies to accelerate growth. Acquire new customers based off Campaign Manager opportunity. 	<ul style="list-style-type: none"> Launch PG scorecard & update pub profiles for RFPs. Pilot Internal KnowledgeBase (YAQS) to increase sharing. Ensure 100% PG adoption of rOpps Q2 review rate & pitch rate. Detailed joint buy/sell close the gap plan (EMEA). Serviceability: gTech Bread & Butter project to drive CPD.
Product	<ul style="list-style-type: none"> Achieve feature parity through Makegoods, Custom Creatives support, improved workflow and access to premium video inventory. Showcase PG value in DV360 UI; Launch Adv. Freq. 	

YTD Numbers till 2019-06-02 timeframe (PG buy) - [mads](#) (source from go/gmads) (Buy side) - \$226 difference with sell side reporting infrastructure due to IT cross-sell currently under investigation. Google Marketing budget not included.

PG Q2 SteerCo Deals offsite

Hypothesis of “why is PG not growing”:

a) Cannibalization -> looking at global numbers it is inconclusive. However, anecdotal feedback of the new york times transferring OA into pg for EMEA users due to GDPR. If cannibalization is happening it is in specific pockets of inventory.

Analysis: distribution of PG CPMs, if closer to OA CPMs could conclude certain amount of cannibalization happening

b) Product readiness -> “unless adv can buy all direct through PG they will not move”

- custom creatives just launched
- DVC can be approved on a partner by partner level (to confirm by eow by should be the case)
- rich media support and discovery - is this one left and preventing the move of budgets?
- serviceability -> has gotten better but still issue

c) Org dynamics with agencies -> asymmetry of information, if value exists this

should be solved.

d) Lack of value -> flexible pricing (pubs asked by advs to lower the pricing)

Deep Dive: Apps

Deep Dive Discussion: Apps

Apps is one of the key levers of sell side growth expected to reach ~8B (41% y/y) by the end of 2019; Gaming specifically is forecasted to reach \$3.250B (47% y/y).

Sell side:

- When AdMob or AdManger is the mediation platform, Google demand has fair access to inventory and is optimally positioned to win. What strategies are you focusing on to grow the revenue on platform from 28%? What challenges and learnings have there been so far? As it relates to larger apps with proprietary ad servers, has Ad Connector (Yavin) proven to be an option to gain access to the pubs inventory?

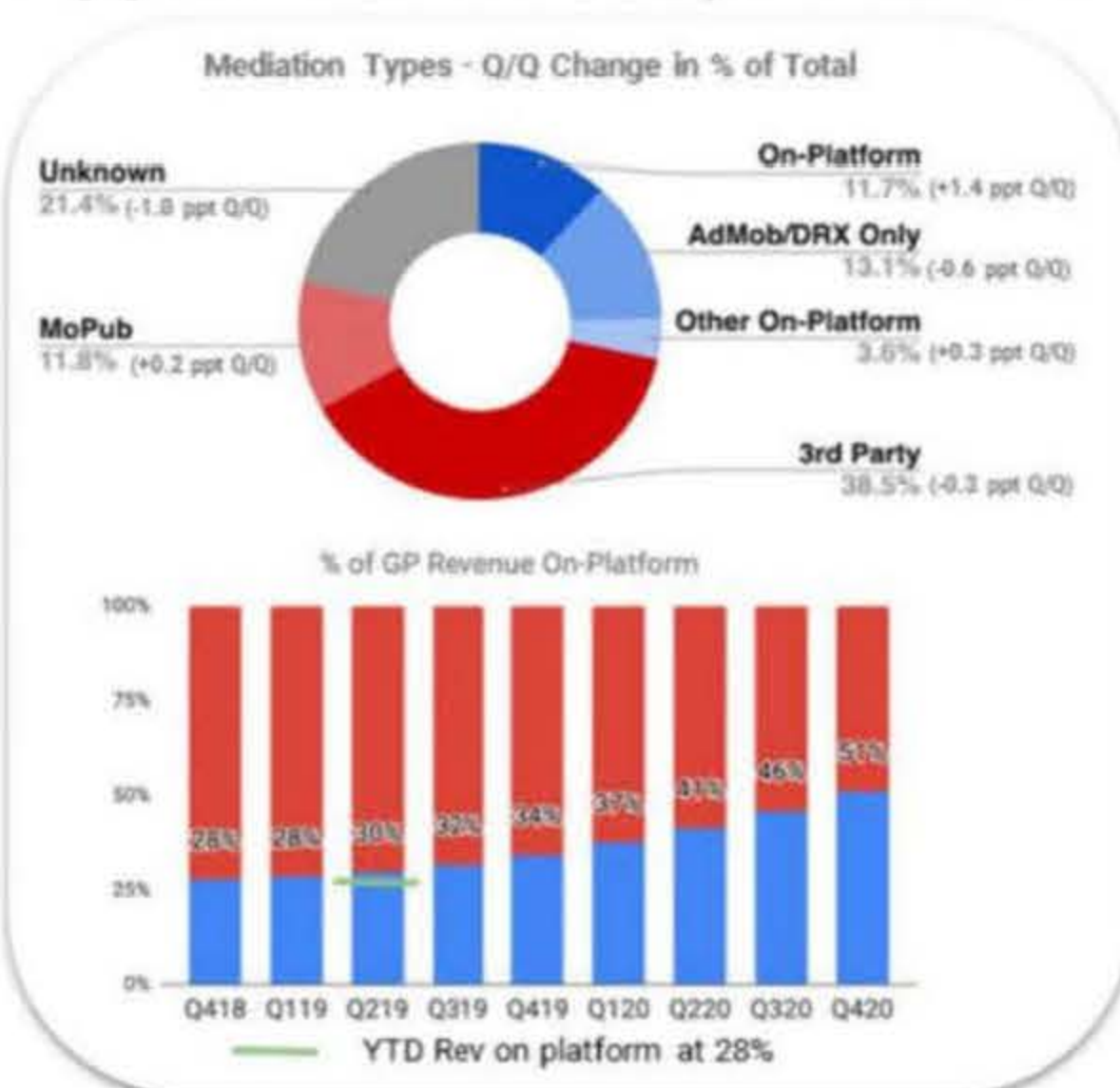
Buy side:

- ~19% of Google Ads (non-UAC) and ~13% of DV3 spend falls to our app network. With a \$15-25b addressable opportunity, and growing user time in apps, what are your plans to increase spend on apps inventory from non-UAC demand?

* We are excluding UAC from this discussion as the sales teams are unable to action increased network spend via UAC.

Google

Apps Platform adoption at 28% against ytd goal of 30%



90 days Timeframe: March 5 - June 2, 2019; Sources: Q1 Product QBR and

Sales Activation Plan

- 10% success rate over 1B+ ARR in platform prospects.
- Closely managing deep list of pipeline by region ([link](#)).
- Limited platform adoption w/ Deal Program: Playdots / OneSoft live (of 32 prospects).
- Achieving target dependent on driving significant uplift in publisher revenue with Open Bidding & commercialization.
 - **OB ramping to GA:** 16 partners live on OB, of which 7 live with FAN; 8% avg. uplift in 5 A/B tests with OB; Challenges w/ FAN approving partners with existing RTB Integration now resolved.

Challenges

- New feature: Competitors introduced **LTV reporting** to attract partners with UA; AdMob expected in Q4.
- New competitor: MAX introducing additional deals to smaller partners, setting a higher bar on **Ad Ops & Tech Support**.

Google

EMEA pipeline source:

https://docs.google.com/spreadsheets/d/1PmMH2eNjFupk8JtJZgKGektRKeOWmO7iLuYmft34_1o/edit#gid=0

APAC pipeline source:

https://docs.google.com/spreadsheets/d/135r7uzEDinbK8HHZFUrg5l5_yE8Oml499VwjWvNASTw/edit?ts=5ceba497#gid=639338210

NA pipeline source: https://docs.google.com/spreadsheets/d/1YEiGDB_Ld_Ui54T-5elqsQ7H1Sm7sUoyh9l4iRjBCcY/edit#gid=0

Majority of Sell side Apps Revs from UAC and Google Ads

Source	Revs (y/y)	% over total	Plan ahead
UAC	627 M (17% y/y)	39%	UAC growing at ~51% but most of the growth being captured by Youtube (29% of total UAC growing at 63% y/y) and non-apps GDN (23% of total UAC growing at 91% y/y).
Focus of Discussion			1) Removed opt-out option "goldmine" (Increased share of apps revs from 26% to 33% and of budget available to app from 58% to 82%). 2) Investigating performance fixes to mCPC and eCPC bid strategies to remove throttling. 3) Investigating deprecation of 'Games' content exclusion (applies exclusively to mb games). 4) Investigating deprecation or migration of App Categories. 5) Launched initiatives to improve quality of traffic in App (App-First Formats and Targeting models). Aggressively drive app opt-in (currently at ~50%; goal of 60% LIs within each NAL) as observed correlation with revs increase. Focus on extending web campaigns into App (not app promo)
Google Ads (non UAC)	720 M (28% y/y)	45%	
DV360	143 M (82% y/y)	9%	
3P Buyers + Others	122 M (-1% y/y)	7%	Additional Exchange onboarding focused on app-heavy sources that materially improve our access to inventory and incremental demand; bid denormalization and additional app-first formats (Rewarded, Native) are anticipated later this quarter
TOTAL	1611 M (*) (24% y/y)		Slower growth than forecasted (41% y/y)

90 days Timeframe: March 5 - June 2, 2019. Source: [go/mobileappdailyrevenue](https://www.google.com/mobileappdailyrevenue/) (model here); (*) difference with SF number presented on slide 7 due to floating FX (instead of yearly fixed).

UAC - [UAC 101](#)

Agnostic and most of the growth has landed in youtube - is there any product development missing on the sell side?

Google ads - Plan ahead:

- 1) Completed the apps control deprecation in January. This increased share of GDA apps revenue from 26% to 33% and increased % of GDA budget available to app from 58% to 82%. - [goldmine](#)
- 2) Currently investigating performance fixes to mCPC and eCPC in order to remove throttling on those bid strategies.
- 3) Investigating deprecation of 'Games' content exclusion (applies exclusively to mobile games).
- 4) Investigating deprecation or migration of App Categories.
- 5) Kicked off initiatives to improve quality of traffic for GDA in App via App-First Formats and App-First Targeting models.

DV360 [app strategy](#) & [activation plan](#).

3P -

Network Bidding pipeline -

https://docs.google.com/spreadsheets/d/1O4_dm7vldnGXwrChIUylnXHZIVkdxGsCJZedM1t6cS8/edit?urp=gmail_link#gid=842774972

Bid Flattening Comms doc-

<https://docs.google.com/document/d/1TpgsmQBwXxaFk0wa3Hqwko-LMy8HXyYGoB8PGsBzmnA/edit>

Rewarded Video comms doc - https://docs.google.com/document/d/1CMR_UF-lsvTnB1omK0TuWPa9bKfYKnJ7loKgPxZS_xE/edit

regarding native - checking on timing with Eng. On FAN:

<https://docs.google.com/document/d/1g8Hi9BHQtm5JcnIZicFrINrQts5a5VrN9W9hvioJn4E/edit?ts=5ccb1b93>

Top Product Asks

Status of Top Product Asks from Sales

Category	Product/Feature Requests	Status	Progress Update	ETA	Availability
PG	▲ Google Audience (Demo, Affinity) in PG	Yellow	Tested Google Demo Audience on 7 pubs in 1H '18. Original plan to tie Demo with Affinity and launch to 20 full stack strategic pubs at 20% rev share. Recent feedback has caused us to pivot to only launch for Disney as a self-side feature and evaluate pivoting to a buy-side feature available to all pubs/buyers.	Q13'19 TBD	Disney
	■ Makegoods, buyer hosted creative support to improve parity	Red	Makegoods (delayed from H1), buyer hosted creatives are on the 2H '19 roadmap	2H '19	Global
	■ Exchange Bidding (DRX)	Yellow	EB in GA for DFP premium (web & app). Since last update in-stream video has also GAed. Sales is still asking for EB to be extended to all of Small Business (Ad Manager). Currently only certain Small Business pubs have been whitelisted. Plans for full Small Business roll-out are unclear.	Q4 '19	Global
EB	▲ Open Bidding (AdMob)	Yellow	Open Bidding (EB+NB on AdMob) transacting with 4 exchanges, 4 network certified & live. 2 in testing. FB is being prioritized but other demand ramps up slower than expected.	2H '19	Global
	▲ Network Bidding (DRX & AdMob)	Yellow	Signed 6 App network partners including FB. Taking longer to get pubs live than expected. Issues with SIMBA have been flagged and are being worked on. Work with Jedi Blue is being prioritized/accelerated. Need better direction from product on whether networks currently serving as Authorized Buyers will have similar access opportunities as Network Bidders.	2H '19	Global
Video (instream)	▲ DAI for Linear TV - linear addressable sofn for TV distributors	Green	Launched with Total Play (MX) in Q2'19. 2 additional POCs in progress for 2020 launch	Q2 '19 Beta	Global
	■ Direct VAST Calls / Programmatic Access Library	Yellow	PAL launched on web, iOS, Android, Android TV, Fire TV, tvOS, and is supported across ~85% of video ad impressions (as of Apr'19). OA/PA/PD support on CTV devices is still TBD and a top priority for Product & Spam to resolve in 2H'19.	Q1 '19 Beta	Global
	■ Higher Native CPMs via Video Improvements	Yellow	MediaView to reduce fiction to be enforced as of 5/26/19. Ongoing experiments regarding platform effects of Native performance to be completed by EOQ2	Q2 '19	Global
Native apps	■ Best practices for native implementation, to be promoted	Yellow	<u>Native templates</u> Launched mid Q2, designed to help publishers choose suggested implementations. In progress of building an effort to commercialize Native Dev Workshop (design service) to global WATT accounts.	Q4 '18	Global
	■ Higher Rewarded CPMs via Incremental demand & optimizing existing demand	Green	Playable demand - Q4 GA, ongoing optimizations of TrueView demand, video CTD demand.	Q4 '18	Global
Rewarded	■ Rewarded SDK API update	Green	Enable Rewarded API to prefetch multiple ads simultaneously; in closed beta, GA moved to Q1	Q2 '19	Global

▲ = New Offering ■ = Innovate existing offering

Successfully launched, or on track to deliver on requirements

In progress, low-med risk of not delivering on requirements

Minimal progress, high risk of not delivering on requirements

Appendix

[Apps/PG] BFM Overview (06/12/2019)

Proprietary & Confidential

TL;DR: Sell-side BFM (6/24) with the goal of ensuring strong collaboration across buy-sell. Two deep dive topics: 1) PG - behind goal (80% of target) - discussion on how buy and sell sides are collaborating in market to drive shift in reservations from tags to PG; 2) Apps - sell-side behind goal (30% y/y vs goal of 41%) - discussion on how to accelerate platform adoption and drive non-UAC demand.

Highlights & key call outs:

- **Penetration Metrics:**
 - Web breadth at 85% in LPS
 - Apps highly competitive (32% OPG)
 - Good progress on video at 53%
- **Product adoption metrics:**
 - **PG:** Revenue growth sufficient, but depth metric (PG imps as % of total reservations imps) lagging as tag reservations continue to grow.
 - **Exch. Bidding and Gaming breadth** growing strongly.

For GTM Leads:

(i) What is potentially controversial that GTM Leads should be aware of?

- PG value prop relative to price points is not clear for adv/pubs, resulting in slow adoption. Coordinated efforts to push PG across buy/sell required.
- Apps platform adoption growth is slow in face of competitive environment. Driving AdMob platform flips remains a sell-side sales priority, even as we await delivery of Open Bidding with FAN demand. Little progress done with top app players via demand-product (with possible need to tweak product/policy).

(ii) What would you like GTM Leads to provide input on specifically?

- Prepare senior sales stakeholders for discussion on coordinated cross functional regional plans to increase apps spend (buy) and platform adoption (sell side) and push flip of tags to PG (buy/sell).

Google

Appendix - Performance review

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Sell-Side Revenue Metrics: C/T and M split

	Display												Search			Total Sell Side Revenue		
	Google Network CT Web			Google Network mWeb			Google Network App			Google Network Video Premium Instream Inventory Only			AFS + AFD					
March 5 - June 2	Rev	Rev YoY	MQ YoY	Rev	Rev YoY	MQ YoY	Rev	Rev YoY	Imp YoY	Rev	Rev YoY	MQ YoY	Rev	Rev YoY	MQ YoY	Rev	Rev YoY	MQ/Imp YoY
LPS - AMS	\$245.9	1%	5%	\$182.5	31%	32%	\$129.0	61%	6%	\$63.7	26%	31%	\$433.8	-7%	-25%	\$1,055	8%	17%
LPS - EMEA	\$159.3	6%	0%	\$107.9	40%	29%	\$48.4	103%	56%	\$33.7	37%	32%	\$165.0	-14%	-4%	\$514	10%	11%
LPS - APAC	\$38.0	-10%	-7%	\$57.9	27%	31%	\$137.5	-26%	-18%	\$7.3	57%	101%	\$32.2	17%	72%	\$273	-11%	14%
OPG - AMS	\$306.9	-1%	-3%	\$352.4	15%	8%	\$234.9	26%	7%	\$37.0	38%	56%	\$23.5	17%	-1%	\$955	12%	3%
OPG - EMEA	\$294.3	2%	5%	\$333.5	40%	22%	\$409.0	48%	22%	\$24.0	31%	42%	\$52.9	20%	2%	\$1,114	29%	14%
OPG - APAC	\$126.2	-5%	-7%	\$248.2	31%	16%	\$660.4	33%	12%	\$2.7	47%	106%	\$10.2	23%	-9%	\$1,048	27%	8%
OPG	\$727.5	-1%	-1%	\$934.2	27%	16%	\$1,304.2	36%	15%	\$63.7	36%	54%	\$86.6	20%	0%	\$3,116	22%	9%
Total	\$1,170.6	0%	0%	\$1,282.5	29%	16%	\$1,619.2	30%	19%	\$168.4	33%	47%	\$717.6	-5%	11%	\$4,958	15%	10%

Metrics use Mar 5 to June 2, 2019 - 90 days; both days included time frame (90 days) and deltas compared to previous year.

SELL-SIDE is a regional View - representing the regions where inventory is managed.

Video includes instream only (AdX Video, AdX Games, AFV, AFG video format). Outstream included under Web (AdX, AdSense) and Apps (AdX Apps, Admob).

Google

Sell-Side Revenue Metrics: Video Instream + Outstream

	Display						Video			Search			Total Sell Side Revenue		
	Google Network Web			Google Network App			Google Network Video - Instream and Outstream			AFS + AFD					
March 5 - June 2	Rev	Rev YoY	MQ YoY	Rev	Rev YoY	Imp YoY	Rev	Rev YoY	MQ YoY	Rev	Rev YoY	MQ YoY	Rev	Rev YoY	MQ/Imp YoY
LPS - AMS	\$425	12%	16%	\$78	17%	-9%	\$118.0	75%	79%	\$433.8	-7%	-25%	\$1,055	8%	16%
LPS - EMEA	\$264	18%	11%	\$44	95%	57%	\$41.3	41%	32%	\$165.0	-14%	-4%	\$514	10%	11%
LPS - APAC	\$95	9%	14%	\$112	-31%	-19%	\$33.7	21%	17%	\$32.2	17%	72%	\$273	-11%	14%
OPG - AMS	\$649	7%	3%	\$161	19%	6%	\$121.1	35%	19%	\$23.5	17%	-1%	\$955	12%	3%
OPG - EMEA	\$618	19%	14%	\$257	36%	19%	\$186.4	62%	45%	\$52.9	20%	2%	\$1,114	29%	14%
OPG - APAC	\$369	15%	7%	\$477	24%	8%	\$191.3	67%	50%	\$10.2	23%	-9%	\$1,048	27%	7%
OPG	\$1,636	13%	9%	\$895	26%	12%	\$498.9	57%	41%	\$86.6	20%	0%	\$3,116	22%	9%
Total	\$2,419	13%	10%	\$1,130	17%	7%	\$691.9	56%	43%	\$717.6	-5%	-13%	\$4,958	15%	10%

REVENUES DISTRIBUTION

Premium Instream inventory only (slide on main deck)	Google Network Web (AFC + AdX + AdX Video + AFV + AFG + AdX Games) when format is <u>not</u> video	Google Network App (AdX Apps + Admob + AFV + AdX Video) when format is <u>not</u> video	Google Network Video (AdX Video + AFV + AdX + AFC + AFG + ADX-Games + AdX-Apps + Admob) when format is Video
	Google Network Web (AFC + AdX + AdX-Games + AFG) all + (AdX-Video + AFV) when format is <u>not</u> video	Google Network App (AdX Apps + Admob) all + (AdX-Video + AFV) when format is <u>not</u> video	Google Network Video (AdX Video + AFV) when format is video

Metrics use Mar 5 to June 2, 2019 - 90 days, both days included time frame (90 days) and deltas compared to previous year.

SELL-SIDE is a regional View - representing the regions where inventory is managed.

Video includes both instream (AdX Video, AdX Games, AFV, AFG video format) and Outstream: web and app only include display.

Google

How is Sell-Side Revenue distributed across inventory

	Display									Search			Total Sell Side Revenue		
	Google Network Web			Google Network App			Google Network Video Premium Instream Inventory Only			AFS + AFD					
March 5 - June 2	Rev	Rev YoY	MQ YoY	Rev	Rev YoY	Imp YoY	Rev	Rev YoY	MQ YoY	Rev	Rev YoY	MQ YoY	Rev	Rev YoY	MQ/Imp YoY
LATAM	\$15.1	30%	31%	\$2.1	60%	-15%	\$1.1	0%	49%	\$0.8	-44%	-26%	\$19	24%	31%
CA	\$20.2	5%	6%	\$5.3	48%	26%	\$7.0	39%	62%	\$0.1	-15%	-8%	\$33	16%	6%
US	\$393.2	12%	15%	\$121.6	61%	6%	\$55.5	25%	29%	\$432.9	-7%	-25%	\$1,003	7%	15%
LPS - AMS	\$428.4	12%	17%	\$129.0	61%	6%	\$63.7	26%	31%	\$433.8	-7%	-25%	\$1,055	8%	17%
DACH	\$73.3	14%	11%	\$14.4	95%	53%	\$0.9	-21%	-18%	\$79.6	-8%	11%	\$168	5%	11%
FR	\$15.2	13%	-8%	\$2.9	26%	49%	\$5.7	28%	-18%	\$2.7	-37%	8%	\$26	8%	-8%
GB	\$43.5	9%	19%	\$6.7	57%	37%	\$5.1	14%	72%	\$4.7	-20%	-13%	\$60	10%	19%
LPS - EMEA	\$267.2	18%	11%	\$48.4	103%	56%	\$33.7	37%	52%	\$165.0	-14%	-4%	\$514	10%	11%
AU/NZ	\$16.1	2%	5%	\$2.4	70%	18%	\$2.2	9%	28%	\$0.3	-32%	-4%	\$21	7%	6%
CN	\$4.9	6%	5%	\$110.8	-34%	-29%	\$0.7	40%	8%	\$0.0	-100%	-100%	\$116	-32%	5%
JP	\$52.8	7%	10%	\$3.0	30%	41%	\$0.0	-17%	-20%	\$31.5	18%	102%	\$87	11%	10%
LPS - APAC	\$95.9	9%	14%	\$137.5	-26%	-18%	\$7.3	57%	101%	\$32.2	17%	72%	\$273	-11%	14%
OPG - AMS	\$659.4	7%	3%	\$234.9	26%	7%	\$37.0	38%	56%	\$23.5	17%	-1%	\$955	12%	3%
OPG - EMEA	\$627.9	19%	14%	\$409.0	48%	22%	\$24.0	31%	42%	\$52.9	20%	2%	\$1,114	29%	14%
OPG - APAC	\$374.4	16%	8%	\$660.4	33%	12%	\$2.7	47%	106%	\$10.2	23%	-9%	\$1,048	27%	8%
OPG	\$1,661.7	13%	9%	\$1,304.2	36%	15%	\$63.7	36%	54%	\$86.6	20%	0%	\$3,116	22%	9%
Total	\$2,453.1	13%	10%	\$1,619.2	30%	10%	\$168.4	33%	67%	\$717.6	-5%	-10%	\$4,958	15%	10%

Metrics use Mar 5 to June 2, 2019 - 90 days, both days included time frame (90 days) and deltas compared to previous year.


SELL-SIDE is a regional view - representing the regions where inventory is managed.

Video includes instream only (AdX Video, AdX Games, AFV, AFG video format). Outstream included under Web (AdSense, AdX) and Apps (AdX Apps, Admob).

Google




Appendix - Penetration and Product adoption metrics

Sell-side BFM Metrics - 2019 View

Penetration metrics		Product Adoption metrics		Deep dives (Buy-sell coordination)			
"Gain Access" (Grow Inventory Access)		"See More" (Improve Demand Access)		"Win More" (Improve Demand Competitiveness)			
Drive Platform Adoption		Drive Shift To Programmatic					
 Web	Web breadth	% Web Revs on platform (100%)	PG (\$11.2B)	EB (\$5.8B)	75%	Dependency on buy side	ESTABLISHED Defend monetization and platform access
	App breadth	% Apps Revs on platform	% of a Partner's <u>direct</u> business that is programmatic [Depth]	% of pubs with EB enabled [Breadth] (*) Indirect line items enabled on EB [Depth]	Games monetization [Breadth]	Dependency on buy side	EMERGING Gain monetization access and flip to on platform
	Video Instream breadth	% Video Revs on platform		% high viewable inventory [Depth] (**) See Rate [Depth]		Dependency on buy side	
Google		Penetration Metric based on estimations (this is, not directly pulled through a query in Google systems); metric for comparison (*) EB metric to be changed to Depth in Q2/Q3; (**) Video instream see rate to be changed to share of high viewability mq in Q2				* = has corresponding (not identical) GP OKR	

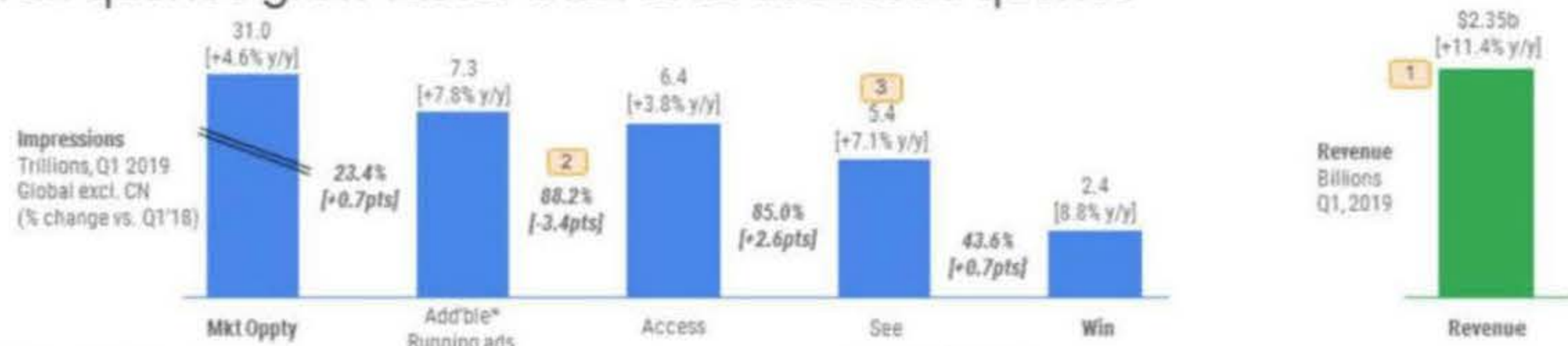
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Penetration Metrics Definition

	WEB	APP	VIDEO INSTREAM (Web only)
	 Web DFP Penetration	 Google App Mediation (Admob or DRX)	 DFP Video Penetration
Metric	# domains with DFP tag or adsense hardcoded or Yavin implementation AdX and Adsense revs served through DFP or hardcoded # domains addr. running ads (non weighted Breadth) AdX and Adsense revs (Rev on platform)	# apps with Google mediation or 100% Google demand or Yavin implementation Admob and AdX-Apps revs served on platform or no mediation # total apps addr. running ads (non weighted Breadth) Admob and AdX-Apps revs (Rev on platform)	# domains with Adx-Video queries via DFP AdX-Video revs served through DFP # total domains addr. running video instream ads (non weighted Breadth) AdX-Video revs (Rev on platform)
Scope	Defined list covering 67% of addressable domains running ads. In order to be considered in DFP or adsense hardcoded the threshold applied is 1000 Adx or adsense imps/quarter.	Defined list covering 67% of addressable market by downloads with ads, WAU or Google revenue (12K+ apps). In order to be considered in admob mediation the threshold applied is 1000 imps/quarter through admob mediation in apps; similarly for an app to be considered monetizing with Google the threshold applied is 1000 imps/quarter through admob.	Defined list covering outlier domains plus the remaining top 67% of addressable domains in terms of total video playbacks of each region. Outliers are domains that alone concentrate more than 1% of video playbacks in a region. In order to be considered as using Adx-Video (numerator) the threshold applied is 1000 Adx-Video imps via DFP per quarter.
Caveats /Notes	<ul style="list-style-type: none"> List of domains on scope updated every quarter but y/y computed comparing against same list. Yavin prospects considered All adsense is either hardcoded or through DFP as adsense through 3P cannot be served (TBC). Adx Revs from passbacks included "on platform". 	<ul style="list-style-type: none"> List of apps on scope updated every quarter but y/y computed comparing against same list. Yavin prospects considered 	<ul style="list-style-type: none"> List of domains on scope updated every quarter but y/y computed comparing against same list. Only covers video instream served on web (apps not included due to methodology not ready). Yavin prospects considered.
	<div>Unaddressable (A, FB, TW, Amazon, Other)</div> <div>Addr. not running ads</div> <div>Addr. running ads</div>	NOTE - The goal of these penetration metrics is not to hold teams accountable but to provide with an idea of the business opportunity in the market.	

2018 priority OKRs to drive platform access: (70+ flips from Top 1000 pubs; 1000+ SoV optimizations) - OPG only OKR

Web - Addressable web market growth accelerated in Q1. Competed and Won queries grew faster than total accessed queries



Market Insights

- Market opportunity, all regions > 0%, APAC at 16% y/y
- The addressable (with ads) web market is estimated to have accelerated in Q1, available queries grew at 7.8% y/y (+4ppt q/q)
- Google accessed queries grew at 4% y/y (-3ppt q/q). Main drivers were US/CA AFC query decline and AdX HC inventory transitioning to the platform. Total queries on Google Ad Manager grew by 7%, AFC/AdX hardcoded queries declined 6% y/y
- AFC/AdX seen and won queries continued to grow faster than accessed queries driven by improved inventory access via Ad Manager and stable win rates: % of Ad Manager queries where AFC/AdX had a chance to compete (See), grew to 75.0% of total queries y/y (+5.0 pts y/y)

*Addressability defined by sites that currently have ads, and addressable by Google Display Sales teams. Yavni prospects are NOT specifically included in the addressable group
 Top Unaddressable sites here: Overall Share of Visits methodology: [here](#)
 2.5% of all addressable Page Views concentrated on the domain 'ampproject.org'. Given how Giengarry records PIVs on some AMP properties, we can't attribute them to the right domains

Growth Initiatives

- Access
 - Continue to focus on Platform Depth through BAU optimizations & Off platform Yavin deals.
- See
 - PG growth continues +80% y/y but behind aggressive target. Performance below target driven by buy-side weakness - need to drive narrative with LCS Advertisers & their Agencies
 - Exchange Bidding breath is on target at 61%; with nearly all eligible accounts now onboarded - need to consider what's next to drive further growth here
- Win
 - Adoption progresses on AMP however still not parity of performance on reservation AMP traffic - need to improve here
 - In general, good adoption of existing initiatives; looking towards new features for future growth here
 - GDPR impact still unclear on H2; however expecting headwinds due to proactive consent enforcements [\$200M risk]

Sandra

Source: <https://docs.google.com/spreadsheets/d/1T9vyRhe59ESVB3wm51EONBt-zgY1zRlfFlwRJOTfqqU/edit#gid=881369511>

Explaining Chart

1. Mkt Oppty = all traffic w/ assumption on #ads/page based on historic ratios
2. Add'ble = Excluding FB, porn, etc.
3. Access = On our platform (AdSense or DRX)
4. See = We compete (so primarily excluding direct (ETC =))
5. Win = Won impressions.

Q119 supporting notes:

- driven by PV growth in APAC and AMP sites (ampproject.org)
- APAC growth in addressable market concentrated in some sites: pixiv.net, livedoor.jp, syosetu.com, rakuten.co.jp (Japan), tribunnews.com (SEA)
- Domain ampproject.org drives 3.5ppt of the 7.8% y/y growth of addressable market. That domain consolidates queries from AMP sites
- Top [gainers](#) / [losers](#) (avito.ru, Dailymail.co.uk, coolmath-games.com) on access share (access share defined as the % of estimated ad impressions that Google accesses either via DRX or AFC)

Notes from Tim on Header Bidding:

HB's share of overall Ad Manager impressions is stable - in or around the 7 to 8% of overall impressions served mark. NA still has the largest penetration although is actually in decline.

Amazon are still the biggest grower, and Rubicon are making efforts to step up their HB game, but all in all we're at a comfortable point when it comes to HB. We expect some movements once we fully migrate to 1P and UPRs from late July.

Q418 supporting notes:

- Addressable market growth accelerated vs. Q3'18: we have only seen acceleration in APAC - driven by Japan and somewhat concentrated (see list of top 100 sites - <https://docs.google.com/spreadsheets/d/1B1S9xYbPNWXFD6TiFHVIAwWS4gUykXOo-MsufBUQ4so/edit#gid=0>) This is to some extent correlated with AFC/AdX web query acceleration seen in Japan in Q4'18

Total DFP web queries grew a little under 11% Y/Y, with all regions growing more than 6% and APAC and LATAM growing the fastest. The main driver of total query growth was on queries where AdX competed (16% Y/Y), while non-competed-for queries grew around 1% Y/Y. For AdX competed queries, growth was driven by OA (contributing to 55% of the growth), followed by Third Party EB (18%). Third Party EB and PG were the fastest growing, both above 100% Y/Y. Within AdX OA, about 36% of the competed-for queries were EB eligible in Q4 2018 versus 16% in Q4 2017.

PG

- Programmatic G'Teed: 81% y/y growth, but trailing aggressive target. Performance below target driven by buy-side weakness (a few large auto clients slowing down PG spend)
 - Globally the partnerships teams are working with buy-side counter parts to activate use of pipes from large buyers/agencies. If demand does not ramp, pubs will have less incentive to move inventory into this deal type, so working closely with buy-side.
 - Additional resource from us not unlocking more, need to drive the narrative with LCS Advertisers and/or their Agencies

AMP

- AMP revenue parity split between OA and Reservations. Ads revenue on AMP in OA environment exceeds that of non-AMP, while reservation revenue on AMP pages are roughly half that of a non-AMP page
- OPG teams also have specific OKR to increase the % of ads queries

that originate from AMP pages

Apps - Healthy growth in Google's SDK footprint; Revenue on-platform remained stable as expected

Proprietary & Confidential



Market Insights

- Google SDK footprint** with 73.0% of addressable apps via AdMob/AdX up 1.3pts vs last quarter with LPS and ISO onboarding new partners and Scalable Acquisitions bringing in new partners.
- BFM Breadth metric** at 32.3%, up 0.2pts vs last quarter. More details on the performance in the Platforms deep-dive.

Gaming Revenue

Closed at 95% of target, slower than expected January while February and March were on target. Slow January attributed to slowdown in hypercasual growth, UAC top advertiser spend decline, and the delay of Goldmine's launch.

Growth initiatives

- Access:** Revenue on-platform has remained static Q/Q as expected, stable at 28%; progress on the product side has been in onboarding 5 partners on OB with FAN, having 4 additional partners in pipeline from the Deal Program list of 32 top developers, and having Marketing focus on Platforms narrative for Q2.
- See:** Partners continue to use the Google SDK allowing us access to inventory, with ISO acquiring 97 new partners in Q1 valued at \$3.4m captured in-quarter. High value formats drove CPM increases but mitigated by low growth on banner and native formats.
- Win:** Win-Rate declined Q/Q by 1pp, slightly greater than expected in terms of seasonal decline; there were further Policy launches, including AdMob throttling, Out-of-Context interstitial enforcement and App Verification.

Google

¹ Addressability defined by developers that currently have ads and are addressable by Google Display sales teams. Top unaddressable developers [here](#).

² Using a threshold of \$100 over last four weeks to filter out false mappings and signs.

³ Includes apps using Google SDK and no mediation, and apps using Google as a mediation platform with a threshold of 1,000 mediated impressions in quarter.

This document contains Google Restricted-Know Information

Zach

Revenue:

https://dasnav.corp.google.com/dnskv23s/#chart_type=bar_chart&dimensions=quota_product:0&display_type=bar_display&end=2019-04-01T00:00:00&granularity=day&growth=true&page=attainment&shift=P1Y&start=2019-01-01T00:00:00&view=default

Instream Video - estimate to access 44% of current addressable oppty on Web. Won queries grew 18% y/y (+6pp q/q) despite continued win rate decline



Market Insights

- Potential opportunity size: estimated 3.7T video ad impressions in Q1'19 globally (+22% q/q). 22% of which are in addressable domains;
- Non-addressable potential opportunity is composed mainly of YT (36%), FB (34%) and Adult content sites (10%);
- Impressions we have Access to grew 51% Y/Y and now account for 44% of Addressable
- 59% y/y growth of eligible to compete queries drove +18% y/y won queries, despite win rate decline of 4pp y/y to 11.4%.

Web-only, including instream queries to Adx, AFC/AFV/AFG. Apps and CTV excluded. Audio Publishers excluded. Ads density assumed 120% bigger than YT's, based on internal benchmarking. Potential opportunity assumes 100% video monetization rate. Current Oppty assumes monetization rates FB: 50%, Instagram: 35%, Netflix & Primevideo: 0%, News sites: 80%, Other Web: 55%. Based on the median of estimates from 10 respondents. Access includes on and off platform. Full deck [here](#); more on [methodology](#).

Growth initiatives

- **Access:** Deals: Tracking top video prospects with global pipeline.
- **Project Honeycomb:** (Impact +\$14M annual); reducing VAST errors by identifying video implementation problems. Leads list completed and uploaded to rOpps shortly
- **See:** Signals : 1) Educate partners on importance of key signals; 2) Improve internal visibility with dashboard (May); 3) Launch external signal reporting (Q2); 4) drive LPS & OPG acct optimization via rOpps (May/June)
- **Win:** Project Liftoff: gTech to continue to drive key optimizations including: fixing Auction Eligibility issues via Ad Duration Settings, AdX Line Items and Pricing Rules / Identifying implementation gaps which prevent impressions from counting towards revenue / etc

Julie

- dark blue are current opp - assume monetization rate under 100% (level we think there is today based on today's mont rates which is an estimate)
- lite blue if all domains were monetizing at their full potential (ie all video playbacks have 1 ad) - lite blue = mont 100%
- access is everything that goes through platform (GAM) or adx
- see is what we compete for

For performance section:

Top line from go/gpnav* (same results as in [zember@trix](#)) & [last QBR](#). Next two bullets from [this dasnav view](#) & [data here](#).

Commentary on top video partners -

- For **CBS Interactive** it was all about Q4 PG spend when looking at video growth...PG grew from \$1.4M in Q3 to \$5.1M in Q4 2018. And when looking at y/y for Q4...PG again grew from \$1.7M in Q4 2017 to \$5.1M in Q4 2018.
- **Pandora:** Launched programmatic video support to GA in June 2018 and really scaled in Q3 and Q4 of this year, with PG Video being the main driver of growth.
- **Spotify:** Similar to CBS, the core of Spotify's video growth was centered around doubling down on PG video. They also launched PG Audio in Q4, which generally gets

lumped into their video numbers.

- **Warner Media:**

- Turner leveraging PG through Direct VAST Calls - PG revenue increased from \$600k in Q3 to \$2.5 MM in Q4 and saw strong YoY growth as well from \$50k in Q4 2017.
- Seasonality for The CW. CW airs new content in Q4 (their shows are in hiatus all of Q3 and we don't see much activity). CW recorded strong YoY growth in Q4 led by PG. PG grew 600% YoY in Q4 from \$150k in 2017 to \$1.1 MM in 2018.

Draft for Bruno: XY% of the potentially addressable impressions opportunity sits on domains not considered "premium" (not broadcasters like X, Y and Z)

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Penetration metrics - Web Weighted Breadth

NON Weighted (as per main slide)

	A: # domains addl. and running ads	Breadth metric		
		Q1 19 B: # domains w/ GFP tag, A/C or Yavin	B/A: Breadth (%)	YoY (pts) Breadth (ppt change)
BR	33	29	88%	0.0
CA	34	33	97%	-2.9
US	328	316	96%	0.3
LPS AMS	434	415	96%	0.0
DACH	216	211	98%	2.3
FR	79	71	90%	-2.5
UK/IE	47	46	98%	0.0
LPS EMEA	819	782	95%	3.4
AU/NZ	60	55	92%	3.3
CN	-	-	-	-
JP	62	58	94%	3.2
LPS APAC	246	233	95%	4.5
LPS TOTAL	1,499	1,430	95%	2.6
OPG AMS	1,371	1,108	81%	4.7
OPG EMEA	2,971	2,428	82%	5.5
OPG APAC	1,288	1,059	82%	9.9
OPG TOTAL	5,630	4,595	82%	6.3
Global XC	7,129	6,025	85%	5.5

Weighted

	Breadth metric (weighted)			
	Q1 19 A: est. ad imps from addl. and running ads domains (B)	Q1 19 B: est. ad imps from domains w/ GFP tag, A/C or Yavin (B)	B/A: Breadth (%)	YoY (pts) Breadth (ppt change)
BR	135	129	96%	-0.2
CA	38	35	97%	-2.6
US	920	884	96%	-3.4
LPS AMS	1,205	1,161	96%	-2.8
DACH	172	167	97%	-0.9
FR	98	86	88%	-4.0
UK/IE	152	150	98%	-1.6
LPS EMEA	1,050	1,011	96%	1.0
AU/NZ	15	14	89%	16.3
CN	-	-	-	-
JP	512	508	99%	1.1
LPS APAC	692	673	97%	0.3
LPS TOTAL	2,948	2,846	97%	-0.7
OPG AMS	1,049	898	86%	3.3
OPG EMEA	1,572	1,447	87%	30.2
OPG APAC	783	661	84%	0.8
OPG TOTAL	3,504	3,006	86%	16.9
Global XC	6,452	5,851	91%	8.6

Caveat: Data purely directional as it is all based on estimations of the volume of web impressions for each domain.

Platform metrics use Q1-2019 timeframe (90 days). Deltas are y/y except apps where delta is computed as q/q given data is only available since July 2018. Data source: [web](#), [apps](#) and [video](#).

Summary of the methodology for the penetration metrics [link](#) - video methodology under review (ETA to be fully vetted June 7).

SELL-SIDE is a regional view - representing the regions where inventory is managed. Metrics definition in [appendix](#).

Google

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Penetration metrics - Apps Weighted Breadth

NON Weighted (as per main slide)

	Q1 2019		BFM Metric	
	Breadth Metric		Breadth Metric	
	App Level		App Level	
	Add'lble Apps (Denominator)	Apps With Google Mediation (Numerator)	Q119	QoQ
Brazil	23	12	52.2%	0.0
Canada	11	9	81.8%	-18.2
US	167	83	49.7%	2.4
LPS AMS	205	106	51.7%	1.0
DACH	25	10	40.0%	-4.0
France	11	3	27.3%	0.0
UK/IE	26	10	38.5%	-7.7
LPS EMEA	187	68	36.4%	8.5
AU/NZ	16	12	75.0%	0.0
Greater China	237	72	30.4%	2.1
Japan	56	31	55.4%	8.9
LPS APAC	436	175	40.1%	2.8
LPS TOTAL	828	349	42.1%	1.8
OPG AMS	1,486	491	33.0%	2.2
OPG EMEA	3,451	1,430	41.6%	-8.6
OPG APAC	6,801	1,790	26.3%	-8.1
OPG TOTAL	11,738	3,718	31.6%	0.1
Global XC	12,604	4,067	32.3%	0.2

Weighted

	Q1 2019		BFM Metric	
	Breadth Metric		Breadth Metric	
	App Level		App Level	
	Add'lble Apps (Denominator)	Apps With Google Mediation (Numerator)	Q119	QoQ
Brazil	12,019,763	3,544,085	29.5%	3.9
Canada	1,709,177	1,128,927	66.1%	-23.8
US	236,345,185	92,784,562	39.3%	-0.5
LPS AMS	252,105,716	99,815,262	39.3%	-0.4
DACH	11,702,069	2,746,484	23.5%	1.1
France	5,193,446	3,034,592	58.4%	11.9
UK/IE	18,611,052	8,424,616	45.3%	-5.3
LPS EMEA	110,765,985	39,854,998	36.0%	8.1
AU/NZ	4,799,340	3,133,590	65.3%	15.5
Greater China	766,054,030	173,928,748	22.7%	1.7
Japan	27,425,340	3,084,003	11.2%	2.4
LPS APAC	1,189,001,366	360,558,364	30.3%	2.0
LPS TOTAL	1,551,873,067	499,428,624	32.2%	2.0
OPG AMS	1,529,365,643	508,172,708	33.2%	0.6
OPG EMEA	4,204,434,234	1,929,088,316	45.9%	-2.7
OPG APAC	7,014,320,641	1,803,661,269	25.7%	-0.2
OPG TOTAL	12,802,620,032	4,241,622,704	33.1%	-0.9
Global XC	14,354,493,099	4,741,051,328	33.0%	-0.6

Caveat: Data purely directional as it is all based on estimations of the market - weight of each app based on number of downloads.

Platform metrics use Q1-2019 timeframe (90 days). Deltas are y/y except apps where delta is computed as q/q given data is only available since July 2018. Data source: [web](#), [apps](#) and [video](#).

Summary of the methodology for the penetration metrics [here](#) - video methodology under review (ETA to be fully vetted June 7).

SELL-SIDE is a regional view - representing the regions where inventory is managed. Metrics definition in [appendix](#).

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Penetration metrics - Video Weighted Breadth

NON Weighted (as per main slide)

	A: # top 2/3rds domains addr. and running ads	Breadth metric	
		Q1 19	YoY (pts)
		B/A: Breadth (%)	Breadth (ppt change)
LPS AMS	54	72%	5.6
LPS NA	33	70%	6.1
LPS LATAM	21	76%	4.8
LPS EMEA	176	70%	11.4
LPS APAC	63	60%	7.9
LPS TOTAL	293	69%	9.6
OPG AMS	200	48%	8.5
OPG NA	65	38%	4.6
OPG LATAM	135	53%	10.4
OPG EMEA	410	51%	17.6
OPG APAC	143	32%	13.3
OPG TOTAL	753	47%	14.3
Global XC	1,046	53%	13.0

Weighted

	A: Playbacks from top 2/3rds domains addr. and running ads (Billions)	Weighted Breadth metric	
		Q1 19	YoY (pts)
		B/A: Breadth (%)	Weighted Breadth (ppt change)
LPS AMS	87.5	29%	-1.5
LPS NA	84.2	28%	-1.6
LPS LATAM	3.3	50%	1.2
LPS EMEA	25.1	74%	13.4
LPS APAC	17.2	60%	30.8
LPS TOTAL	129.8	42%	5.7
OPG AMS	15.0	53%	27.4
OPG NA	7.8	67%	52.7
OPG LATAM	7.2	38%	0.1
OPG EMEA	25.6	44%	15.9
OPG APAC	16.3	17%	0.8
OPG TOTAL	56.9	39%	14.6
Global XC	186.6	41%	8.4

Caveat: Data purely directional as it is all based on estimations of the market; (*) Video instream covers web only - apps and CTV to be included in the methodology.
 Platform metrics use Q1-2019 timeframe (90 days). Deltas are y/y except apps where delta is computed as q/q given data is only available since July 2018. Data source: [web](#), [apps](#) and [video](#).
 Summary of the methodology for the penetration metrics [here](#) - video methodology under review (ETA to be fully vetted June 7).
 SELL-SIDE is a regional view - representing the regions where inventory is managed. Metrics definition in [appendix](#).

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Penetration metrics - Rev on platform

	"Gain Access"		
	WEB	APP	VIDEO INSTREAM (Web)
	Web Rev on Platform	App Rev on Platform	Video Instream Rev on Platform
LPS AMS	96% ▲ 3	13% ▲ 3	91% ▲ 19
LPS EMEA	97% ▲ 2	11% ▼ 17	89% ▲ 10
LPS APAC	88% ▲ 9	14% ▼ 1	88% ▲ 4
LPS TOTAL	95% ▲ 3	14% ▼ 1	90% ▲ 15
OPG AMS	96% --	17% ▲ 1	67% ▼ 8
OPG EMEA	95% ▲ 4	24% --	89% ▲ 16
OPG APAC	97% ▲ 6	23% ▲ 1	63% ▼ 13
OPG TOTAL	96% ▲ 3	22% ▲ 1	79% ▲ 5
Global XC	96% ▲ 3	21% --	87% ▲ 12

Key 96% ▲ 3

Percentage point Δ in last 3 months (previous year for new penetration metrics)
 Colour indicates whether growth = 0
 Colour indicates above/below XC average

(*) Caveat: Data not rev weighted (*) Video instream covers web only - apps and CTV to be included in the methodology.

Platform metrics use Q1-2019 timeframe (90 days). Deltas are y/y except apps where delta is computed as q/q given data is only available since July 2018. Data source: [web](#), [apps](#) and [video](#).

Summary of the methodology for the penetration metrics [web](#) - video methodology under review (ETA to be fully vetted June 7).

SELL-SIDE is a regional view - representing the regions where inventory is managed. Metrics definition in [appendix](#).

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Penetration metrics - Country view

	"Gain Access"					
	WEB		APP		VIDEO INSTREAM	
	Web DFP penetration (Breadth)	Web DFP penetration (Depth)	Google App mediation penetration (Breadth)	Google App mediation penetration (Depth)	DFP Video penetration (Breadth)	DFP Video penetration (Depth)
BR	88%	--	97%	▲ 1	52%	--
CA	97%	▼ 3	99%	--	82%	▼ 18
US	96%	--	96%	▲ 3	50%	▲ 3
LPS AMS	96%	--	96%	▲ 3	53%	▲ 3
DACH	98%	▲ 3	99%	--	40%	▼ 4
FR	90%	▼ 2	81%	▲ 4	27%	--
UK/IE	92%	--	94%	▲ 1	39%	▼ 7
LPS EMEA	95%	▲ 3	93%	▲ 3	38%	▼ 17
AU/NZ	92%	▲ 4	89%	▲ 6	75%	--
CN	--	--	--	--	30%	▲ 2
JP	94%	▲ 6	86%	▲ 11	55%	▲ 9
LPS APAC	95%	▲ 5	88%	▲ 9	40%	▲ 3
LPS TOTAL	95%	▲ 5	88%	▲ 9	40%	▲ 3
OPG AMS	81%	▲ 5	96%	--	33%	▲ 2
OPG EMEA	82%	▲ 6	95%	▲ 4	47%	--
OPG APAC	82%	▲ 10	97%	▲ 6	26%	--
OPG TOTAL	82%	▲ 7	96%	▲ 3	32%	--
Global XC	85%	▲ 8	96%	▲ 3	32%	--

WIP

Percentage point ▲ in last 3 months (previous year for new penetration metrics)
 Colour indicates whether growth = 0
 Colour indicates above/below XC average

(*) Caveat: Data not reweighted (*) Video instream covers web only - apps and CTV to be included in the methodology.

Platform metrics use Q1-2019 timeframe (90 days). Deltas are y/y except apps where delta is computed as q/q given data is only available since July 2018. Data source: [web](#), [apps](#) and [video](#).

Summary of the methodology for the penetration metrics [here](#) - video methodology under review (ETA to be fully vetted June 7).

SELL-SIDE is a regional view - representing the regions where inventory is managed. Metrics definition in [appendix](#).

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Penetration metrics - Regional view

	"Gain Access"					
	WEB		APP		VIDEO INSTREAM (Web)	
	Web platform penetration (Breadth)	Web Rev on Platform	Google App mediation penetration (Breadth)	App Rev on Platform	Video Instream platform penetration (Breadth)	Video Instream Rev on Platform
BR	88%	--	97%	▲ 1	52%	--
CA	97%	▼ 3	99%	--	82%	▼ 18
US	96%	--	96%	▲ 3	50%	▲ 3
LPS AMS	96%	--	96%	▲ 3	82%	▲ 1
DACH	98%	▲ 3	99%	--	80%	▼ 4
FR	90%	▼ 2	91%	▲ 4	27%	--
UK/IE	98%	--	96%	▲ 1	29%	▼ 7
LPS EMEA	95%	▲ 3	97%	▲ 2	36%	--
AU/NZ	92%	▲ 4	99%	▲ 5	75%	--
CR	--	--	--	--	0%	--
JP	94%	▲ 4	88%	▲ 11	55%	▲ 5
LPS APAC	93%	▲ 5	88%	▲ 9	40%	▲ 3
LPS TOTAL	93%	▲ 3	95%	▲ 3	43%	▲ 2
OPG AMS	91%	▲ 5	96%	--	27%	▲ 2
OPG EMEA	82%	▲ 5	95%	▲ 4	42%	--
OPG APAC	87%	▲ 10	97%	▲ 4	26%	--
OPG TOTAL	82%	▲ 7	96%	▲ 3	32%	--
Global EC	85%	▲ 8	96%	▲ 3	32%	--

Percentage point ▲ in last 3 months (previous year, for new penetration metrics)
 Colour indicates whether growth + 0
 Colour indicates above/below XC average

(*) Caveat: Data not rev weighted (*) Video Instream covers web only - apps and CTV to be included in the methodology.

Platform metrics use Q1-2019 timeframe (90 days). Deltas are y/y except apps where delta is computed as q/q given data is only available since July 2018. Data source: [web](#), [apps](#) and [video](#).

Summary of the methodology for the penetration metrics [web](#) - video methodology under review (ETA to be fully vetted June 7).

SELL-SIDE is a regional view - representing the regions where inventory is managed. Metrics definition in [appendix](#).

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Display/Video Product Adoption Metrics Definition

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		Metric Definition	Ideal value	Notes	GP OKR *
Gain Access	Program. Guaranteed (PG)	# PG matched queries			
		# Direct sales and PG matched queries in DFP of the partners who have served at least one PG impression	~80%	Remaining 20% are formats not available (eg skins).	\$897M PG revs (107.6% y/y)
"See More"	Exchange Bidding (EB)	# Indirect matched queries served in DFP by partners enabled in EB	75%-100%	DFP SB is initially not EB target although enabled as exception.	75-100% partners enabled
		# Indirect matched queries served by DFP			
		# EB eligible mq in indirect line items	100%	2019 GP Metric - will be used at BFM once breadth hits ~75%	
		# mq of indirect line items			
	Gaming apps	DAU of gaming apps in Android Play serving ads through Admob or AdManager	100%	Giving we are relying on Android Play data, DAU data can only be shown in aggregated	\$3.250B Gaming revs (47% y/y)
		DAU of all gaming apps in Android Play			
	Video instream	Video instream q in AdX-Video with viewability => 90%	TBD - 100%	It is expected to always have some low viewability inventory (can potentially be sold via DV360).	80% y/y growth of inventory with viewability =>80%
		All video instream q in AdX-Video			

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Product Adoption Metrics - Regional View

	Programmatic Guaranteed (Share)		Exchange Bidding (Breadth)		Instream Video Viewability (Share)		Android Play Gaming (Breadth)	
LPS	3%	--	75%	▲ 2	9%	▼ 2	83%	▼ 1
OPG	1%	--	60%	▲ 7	11%	--	73%	--
Americas	3%	--	68%	▲ 5	10%	▼ 1	78%	--
LPS	2%	--	78%	▲ 3	10%	▼ 5	53%	▼ 5
OPG	5%	▲ 1	46%	▲ 4	8%	▼ 5	75%	▲ 1
EMEA	3%	--	60%	▲ 3	9%	▼ 5	74%	▲ 1
LPS	11%	--	85%	▲ 2	31%	▲ 1	70%	▲ 1
OPG	2%	--	31%	▲ 2	18%	▼ 5	61%	▲ 3
APAC	8%	--	60%	▲ 2	27%	▼ 1	62%	▲ 2
LPS	4%	--	79%	▲ 3	12%	▼ 3	77%	--
OPG	3%	▲ 1	48%	▲ 4	10%	▼ 3	68%	▲ 2
Global XC	4%	--	63%	▲ 4	11%	▼ 3	69%	▲ 1

Metrics use Mar 5 to Jun 2, 2019 (90 days) and the deltas are calculated against the immediately preceding 90 days, except for the Android Play Gaming Metric which uses Feb 2019, Mar 2019, Apr 2019 compared to the prior three months (Nov 2018, Dec 2018, Jan 2019). SELL-SIDE is a regional view - representing the regions where inventory is managed. Metrics definition: [metrics](#)

Key 86% ▲ 9 Percentage point & in last 3 months /
 Colour indicates whether growth > 0
 Colour indicates above/below XC average

Google

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Product Adoption Metrics - OPG Tiering

	PG (Share)	EB (Breadth)	Instream Video Viewability (Share)	Android Play Gaming (Breadth)
Americas	3%	75%	9%	83%
EMEA	2%	72%	10%	85%
APAC	15%	80%	31%	70%
LPS	4%	78%	12%	77%
Tier 1	3%	73%	12%	93%
Torso	0%	3%	7%	76%
Tail	0%	10%	0%	9%
Americas OPG	1%	60%	11%	72%
Tier 1	7%	60%	8%	95%
Torso	0%	0%	15%	58%
Tail	0%	0%	51%	6%
EMEA OPG	3%	44%	6%	78%
Tier 1	3%	39%	19%	91%
Torso	0%	0%	9%	52%
Tail	0%	0%	12%	3%
APAC OPG	2%	21%	18%	61%
OPG Tier 1	5%	61%	10%	93%
OPG Torso	0%	0%	8%	86%
OPG Tail	0%	5%	21%	4%
OPG	3%	48%	10%	68%
Global KC	4%	63%	11%	69%

Key 50% ▲9 Percentage point Δ in last 3 months / Colour indicates whether growth > 0 / Color indicates above/below KC average

Metrics use Mar 5 to Jun 2, 2019 (90 days) and the deltas are calculated against the immediately preceding 90 days, except for the Android Play Gaming Metric which uses Feb 2019, Mar 2019, Apr 2019 compared to the prior three months (Nov 2018, Dec 2018, Jan 2019). SELL-SIDE is a regional view - representing the regions where inventory is managed. Metrics definition in [Appendix](#)

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Viewability Metrics excl. Activision

Instream Video Viewability		
BR	29%	▲ 6
CA	25%	▼ 12
US	8%	▼ 1
Americas LPS	9%	▼ 1
DACH	8%	▼ 7
FR	16%	▼ 1
UK/IE	10%	▼ 3
EMEA LPS	10%	▼ 5
AU/NZ	42%	▼ 6
GRCN	25%	▼ 22
JP	25%	▲ 5
APAC LPS	31%	▲ 1
LPS	12%	▼ 2
Americas OPG	12%	—
EMEA OPG	8%	▼ 5
APAC OPG	19%	▼ 4
OPG	10%	▼ 3
Global XC	11%	▼ 2

Instream Video Viewability		
LPS	9%	▼ 1
OPG	12%	—
Americas	10%	▼ 1
LPS	10%	▼ 5
OPG	8%	▼ 5
EMEA	9%	▼ 5
LPS	31%	▲ 1
OPG	19%	▼ 4
APAC	27%	▼ 1
LPS	12%	▼ 2
OPG	10%	▼ 3
Global XC	11%	▼ 2

Instream Video Viewability		
Americas	9%	▼ 1
EMEA	10%	▼ 5
APAC	31%	▲ 1
LPS	12%	▼ 2
Tier 1	12%	—
Torso	6%	▼ 3
Tail	0%	▼ 25
Americas OPG	12%	—
Tier 1	8%	▼ 5
Torso	5%	▼ 4
Tail	32%	▲ 29
EMEA OPG	8%	▼ 5
Tier 1	10%	▼ 4
Torso	6%	▼ 12
Tail	37%	▲ 5
APAC OPG	19%	▼ 4
OPG Tier 1	10%	▼ 3
OPG Torso	7%	▼ 4
OPG Tail	30%	▲ 7
OPG	10%	▼ 3
Global XC	11%	▼ 2

Key 80% ▲ 9 Percentage point Δ in last 3 months / Colour indicates whether growth > 0
 Colour indicates above/below XC average

Metrics use Mar 5 to Jun 2, 2019 (90 days) and the deltas are calculated against the immediately preceding 90 days. SELL-SIDE is a regional view - representing the regions where inventory is managed. Metrics definition in [appendix](#)

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Appendix - Deep Dive Apps

Apps Platform adoption

		Rev. on platform	Platform depth	Sales Top Pipeline			
				# of targets	Opportunity	Testing	Flipped
All		\$335.8M	27.74%	103	1710	32	15
OPG	AMR	\$37.8M	22.66%	30	280	10	3
OPG	EMEA	\$97.7M	29.06%	33	553	15	3
OPG	APAC	\$165.6M	28.26%	40	877	7	9

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EMEA pipeline source:

https://docs.google.com/spreadsheets/d/1PmMH2eNjFupk8JtJZgKGektRKeOWmO7iLuYmft34_1o/edit#gid=0

APAC pipeline source:

https://docs.google.com/spreadsheets/d/135r7uzEDinbK8HHZFUrg5l5_yE8Oml499VwjWvNASTw/edit?ts=5ceba497#gid=639338210

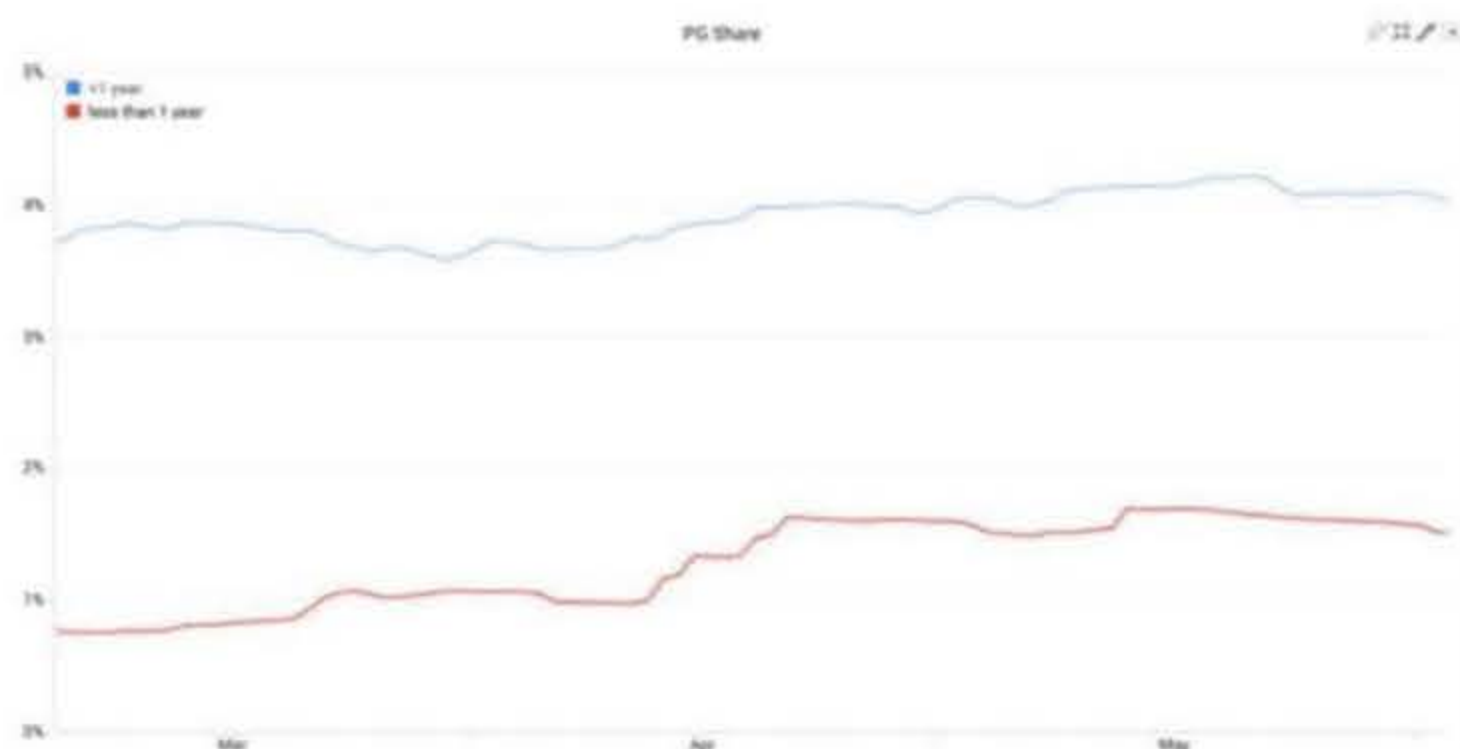
NA pipeline source: https://docs.google.com/spreadsheets/d/1YEiGDB_Ld_Ui54T-5elqsQ7H1Sm7sUoyh9l4iRjBCcY/edit#gid=0

Appendix - Deep Dive PG

PG share by inventory type

Inventory Type	PG Share	90 Day Delta	PG inv (in B)	PG inv 90 Day Growth (%)	Direct inv (in B)	Direct inv 90 Day Growth (%)	PG Share Video	Video 90 Day Delta	PG Share App	App 90 Day Delta	PG Share Display	Display 90 Day Delta
- All	4.00%	--	38.67	8.01%	928.32	-3.89%	8.56%	▼ 2	12.23%	▲ 5	1.93%	--
- LPS	4.49%	--	28.72	0.72%	610.54	-3.29%	8.67%	▼ 3	18.27%	▲ 3	2.44%	--
+ Americas	3.32%	▼ 1	12.87	-21.89%	374.70	-6.85%	6.28%	▼ 4	3.28%	▼ 1	2.51%	--
+ APAC	11.96%	▲ 2	13.43	46.23%	98.85	20.89%	26.51%	▲ 2	21.90%	▲ 4	3.89%	--
+ EMEA	1.73%	--	2.42	-15.17%	137.00	-6.97%	10.26%	▼ 1	0.94%	--	1.40%	--
- OPG	3.03%	▲ 1	9.94	36.57%	317.78	-5.04%	8.03%	▲ 2	18.81%	▲ 9	1.11%	--
+ Americas	1.31%	--	1.59	-13.94%	120.37	-6.63%	1.71%	--	0.72%	--	1.29%	--
+ APAC	1.71%	--	1.08	20.90%	61.90	-5.04%	3.26%	▼ 2	1.98%	▼ 1	1.66%	--
+ EMEA	5.10%	▲ 2	7.28	60.23%	135.51	-3.59%	27.36%	▲ 12	29.63%	▲ 15	0.70%	--

PG share by Admanager cohort

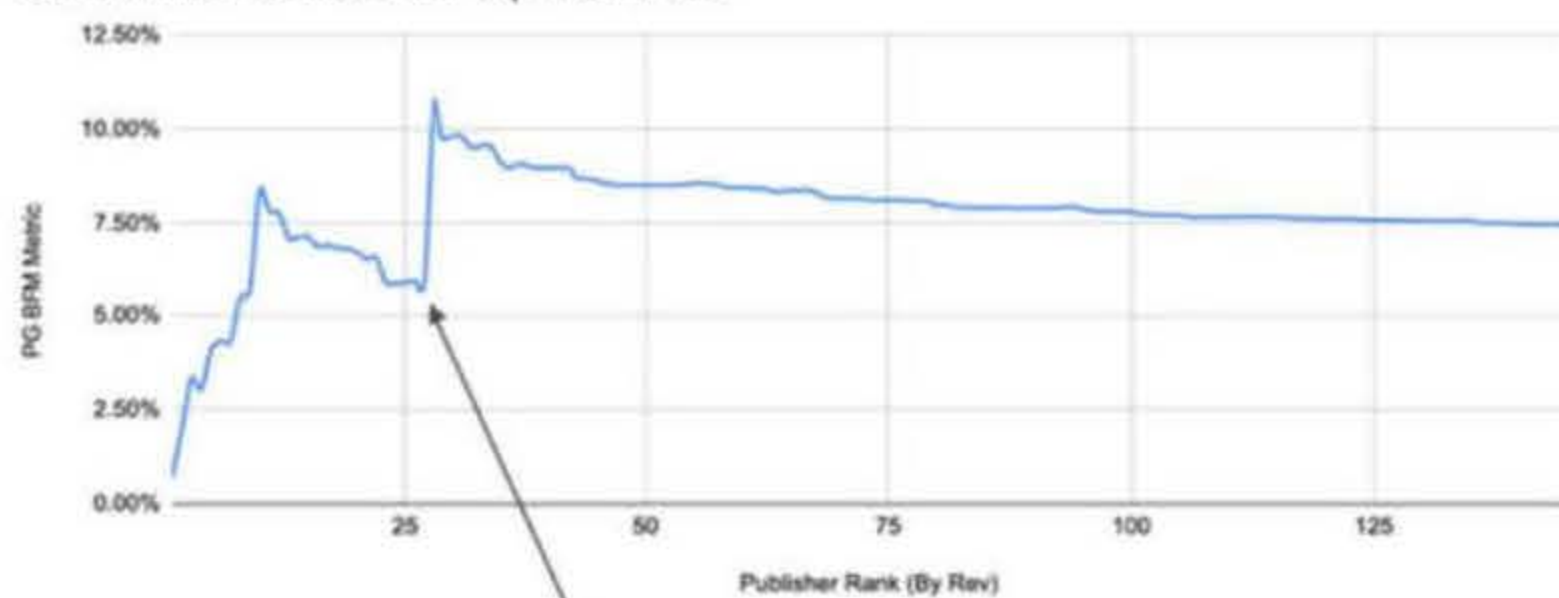


The new Admanager accounts (less than 1 year) show lower values of PG share (large amounts of reservation inventory hit the denominator while limited amount of PG).

As time progresses, the PG metric grows as the pub starts doing PG (value of the metric for the admanager accounts that have existed for more than 1 year shows a value of 4% by June 2)

PG share of top PG accounts

Cumulative PG Metric for Top Publishers



True Software Scandinavia

	PG Share
1 Spotify	0.71%
2 Advance Publications	9.00%
3 Vox Media	18.87%
4 CBS Corporation	2.42%
5 Chouet Group	18.69%
6 The New York Times Company	16.05%
7 Hearst	4.20%
8 TWC Product and Technology	21.24%
9 TripAdvisor Group	9.65%
10 UOL	15.01%
11 eBay Corp	3.80%
12 IAC	5.63%
13 SiriusXM Radio	6.36%
14 Ziff Davis	8.53%
15 Forbes Media	15.50%
16 WarnerMedia	3.25%
17 The Washington Post Company	15.83%
18 Cox Enterprises	3.15%
19 BCE	3.70%
20 SiriusMedia NYC, Inc.	5.27%
21 News Corporation	1.28%
22 Univision Communications	13.31%
23 Bennett & Coleman	3.49%
24 Gannett	3.55%
25 Rogers Communications	13.88%

Source

Google

PG breadth

	PG Breadth	90 Day Delta	PG mg (in B)	PG mg 90 Day Growth (%)	Direct mg (in B)	Direct mg 90 Day Growth (%)	PG Breadth Video	Video 90 Day Delta	PG Breadth App	App 90 Day Delta	PG Breadth Display	Display 90 Day Delta
- All	61.02%	▲ 2	38.33	13.49%	933.02	4.53%	61.32%	▼ 10	71.13%	▼ 1	49.79%	▼ 1
- OPG	30.63%	—	9.51	23.62%	314.70	0.27%	28.03%	▼ 12	40.04%	▲ 5	25.84%	▲ 2
+ EMEA	34.51%	▲ 3	6.64	26.89%	133.66	1.90%	52.97%	▲ 20	33.28%	▲ 4	28.73%	▲ 2
+ Americas	29.79%	▼ 2	1.75	12.19%	119.14	-2.67%	17.69%	▼ 26	67.07%	▲ 5	26.99%	—
+ APAC	23.58%	—	1.12	24.44%	61.89	2.72%	25.32%	▼ 10	23.63%	▲ 6	21.84%	▲ 4
- LPS	76.24%	▲ 2	28.82	10.50%	618.33	6.83%	67.48%	▼ 13	80.98%	▼ 3	66.24%	▼ 2
+ EMEA	89.60%	▲ 4	2.61	12.54%	138.84	1.95%	75.22%	—	75.21%	—	88.72%	▲ 5
+ APAC	91.86%	—	12.55	24.25%	96.75	27.29%	87.07%	▼ 1	97.60%	▲ 1	87.92%	—
+ Americas	67.17%	▲ 1	13.66	-0.02%	382.74	4.41%	64.55%	▼ 15	66.86%	▼ 13	49.09%	▼ 6

Note: Advertisers breadth (DV360 revenue for pubs with PG / Total DV360 revenue) at 63% (~1.8K adv).

Source at [go/kshfm](#)

Google

Advertiser Breadth

1,794 total PG advertisers on DV360

(Display) 1,325 PG advertisers

(Video) 927 PG advertisers

Below are revenue weighted breadth metrics, the EXACT calculation is DV360 revenue for pubs with PG / Total DV360 revenue

PG Breadth - 63%

Video - 54%

Display - 55%

Notes:

- This is NOT an apples to apples comparison to the Sell-Side Breadth metric because it is looking at DV360 revenue, not direct reservation stats from DCM
- Video is video ads NOT instream video inventory, and Display is just display ads on any environment

Status of Additional Product Asks on PG from Sales

Proprietary & Confidential

Legend

Committed

Not yet committed

Feature Parity with Reservations

Feature	Buy/Sell/Both	Timing	Committed
Creative-level targeting	Sell	H1	Launched
Post-bid brand safety blocks	Buy	H2	Yes
Makegoods	Both	H2	Yes
CPM Sponsorships	Both	H2	No
Rich media + RM reporting	Buy	H2	No
User roles	Buy	H2	No
Master/companion setup	Both	H2	No
Upfronts support	Both	H2	No
Makegoods with bonus impressions	Both	H2	No
Non DFP Video inventory access	Both	H2	No
Workflow to prevent improper pausing of deal	Both	H2	No
CPD Sponsorship for Authorized Buyers	Sell	H2	No
Custom Creatives (post-GA requests)	Both	H2	No

Features Improve Usability and Serviceability

Feature	Buy/Sell/Both	Timing	Committed
Creative Configuration transparency	Buy	H1	Yes
Deal sync/seller API PGX	Buy	H1	Yes
Troubleshooter improvements	Buy	H2	Yes
Pre-flight testing	Sell	H1	Yes
ATP's blocking deals in LI troubleshooter	Sell	H1	Yes
Prevent bad inventory targeting	Buy	H1	Yes
Prevent bad inventory targeting	Buy	H2	No

Feature creating exclusive PG value

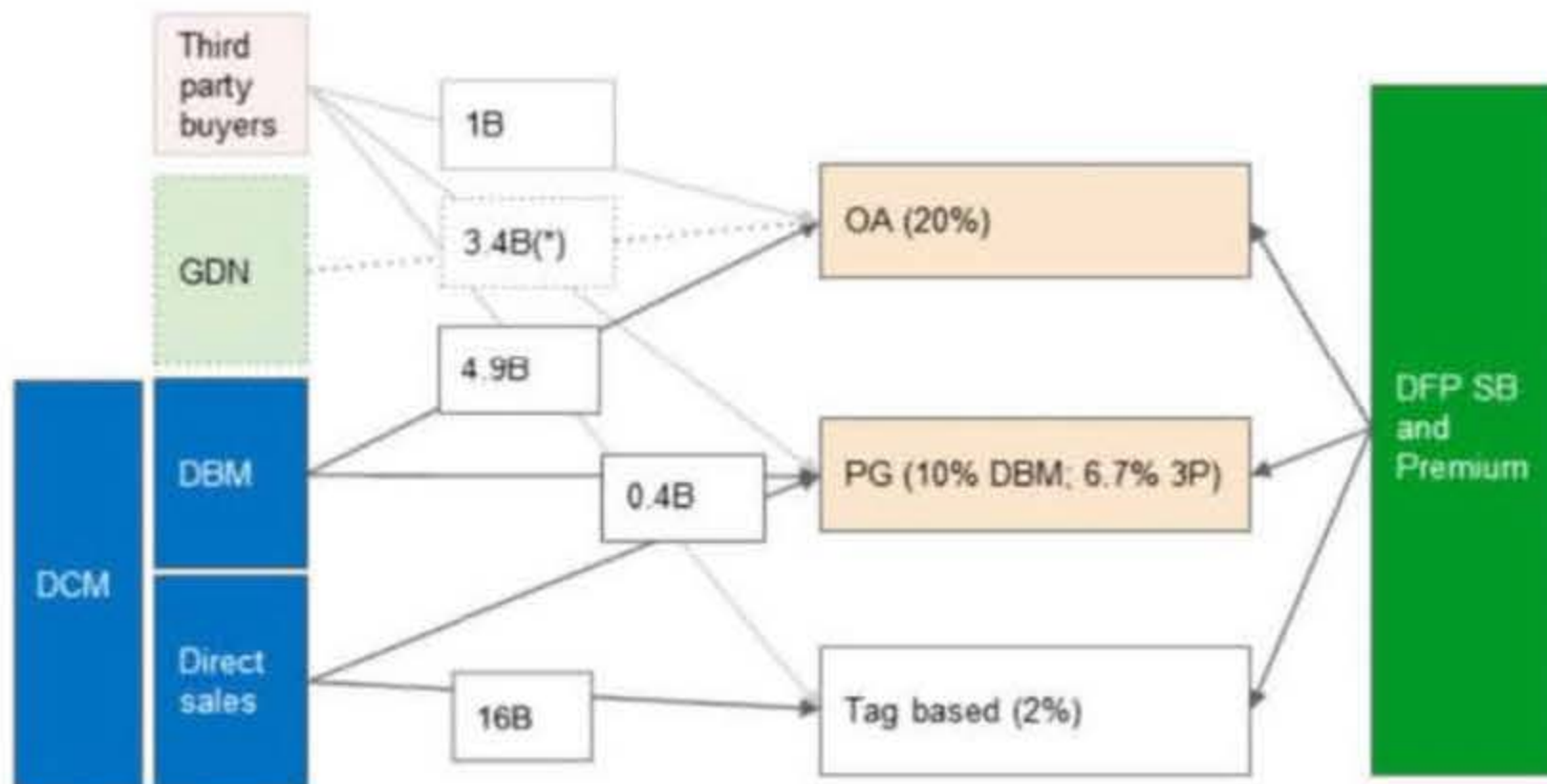
Feature	Buy/Sell/Both	Timing	Committed
Expose value-added metrics in reporting: spam, viewability, 2-way fcap	Both	H1	Yes
Brand Lift for PG	Both	H1	Yes
PG with Freq. Management	Buy	H1	Yes
PG with 3rd party lists	Buy	H1	Launched
PGX - Launch 2 SSPs	Buy	H1	Launched
PG with Google Affinity and Demo data	Sell	H1	Yes
Expose value-added metrics in Reporting: COO Fcap	Buy	H2	Yes
Expose value-added metrics in UI: spam, viewability, 2-way fcap	Buy	H2	Yes
PGX - Launch 2 more SSPs	Buy	H2	No
Recommending PG inventory?	Buy	H2	No
vCPM counting / billing	Sell	H2	No
Customer match	Sell	H2	No
Publisher Profile Improvements	Sell	H2	No

Features Building for Video Publishers and Broadcasters

Feature	Buy/Sell/Both	Timing	Committed
Preview / test creatives before go-live	Sell	H1	Yes
TV content bundles in marketplace	Sell	H1	Yes
Improve quality of metadata in Ad Creative Review	Sell	H2	No

Google

Cannibalization would be highly unlikely



Any budgets moving from OA to PG would be highly unlikely due to the following reasons:

- Efforts required to make and maintain direct connections
 - Deals sourcing: PG requires a salesforce
 - Deals mg: need to set up an order for each PG vs one time set up for OA
- Supply and demand dynamics
 - PG CPMS higher than OA and hence targeting different advertiser budgets
- Google's GTM Strategy
 - Ideal state for buyers is decisioning on every impression (hence: tags -> PG -> OA)
- Google's product Strategy
 - Safety features only available only on OA (as PG allows buyer/sell freedom)

Confidential and Proprietary

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Advertisers budgets in Google AdX and selling costs

Advertisers sophistication Size of Advertising Budgets	Distribution of Adv. Spend in Google		Fee structure	
	PG	Direct sales	On direct sales	On PG
Big 6 agencies	67% (DCM + 3P Advertisers in DFP)	5% (DBM + 3P Buyers in AdX)	- 0.06 DCM ad serving fee + D% cut on media spend + F% Rebate on annual budget (paid by pub)	- 0.06 DCM ad serving fee - 4% tech fee + 1.3 to 2*D% cut on media spend (*) + F% Rebate on annual budget (paid by pub) + G% DVIP discount paid by Google
TechSavy agencies (eg Accenture) Medium/Small agencies	5% (DBM + 3P Buyers in DFP)	5% (DBM + 3P Buyers in AdX)	- 0.06 DCM ad serving fee + D% cut on media spend + F% Rebate on annual budget (paid by pub)	- 0.06 DCM ad serving fee - 4% tech fee + D% cut on media spend (**) + F% Rebate on annual budget (paid by pub) + G% DVIP discount paid by Google
Medium/Big Advertisers (Typically through DBM)	28% (DBM + 3P Buyers in DFP)	5% (DBM + 3P Buyers in AdX)	- 0.06 DCM ad serving fee	- 0.06 DCM ad serving fee - 4% tech fee
Medium/Small Advertisers (Typically through Adwords)	n/a (negligible)	Adwords in AdX	n/a (in home)	n/a (in home)

(*) Anecdotal feedback in APAC: Agencies fees can be 30-100% higher in PG (claiming operational complexity of setting up the deals). Approach followed to avoid the extra 30%-100% extra mark up to advertisers: train the OpCo (Mindshare) to do the PG themselves instead of going through the Trading desk (Xaxis).

(**) Smaller/Medium/Tech savy agencies - media planning and digital spend done by the same team so no extra mark up is charged (hypothesis tbv but kept for simplification).